

AMENDMENTS

IN THE CLAIMS:

1. (Currently amended) A cell membrane preparation obtained from a cell that expresses an exogenous gene encoding a mammalian D2 dopamine receptor, wherein said exogenous mammalian D2 dopamine receptor-encoding gene is from a mammalian species different from the species of the cell in which the exogenous gene is expressed, and wherein said exogenous mammalian D2 dopamine receptor-encoding gene has having an amino acid sequence identified as the amino acid sequence of Fig. 7A-C, Fig. 18A-H or Fig. 18A-H wherein amino acids 242-270 are deleted therefrom.

2. (Previously presented) A cell membrane preparation according to claim 1, wherein the mammalian D2 dopamine receptor is encoded by a DNA molecule comprising

- a) a DNA molecule having the sequence of Fig. 7A-C,
- b) a DNA molecule having the DNA sequence 1-1245 of Fig. 1A-E,
- c) a DNA molecule having the DNA sequence 1-1329 of the human DNA sequence of Fig. 18A-H,
- d) a DNA molecule having the DNA sequence 1-723 and 811-1329 of the human DNA sequence of Fig. 18A-H, corresponding to nucleotides 1-1329 of the human DNA sequence of Fig. 18A-H, wherein the nucleotide sequence 724-810 of the human is deleted therefrom, or
- e) a DNA molecule that hybridizes-under conditions of 0.1X saline-sodium citrate (SSC) and 0.1% sodium dodecylsulfate (SDS) at a temperature of 65°C to a nucleic acid that is complementary to a), b), c) or d).

3. (Original) A cell membrane preparation according to claim 1 wherein the cell membrane is prepared from a cell comprising a vector comprising a DNA molecule encoding a mammalian D2 dopamine receptor having an amino acid sequence identified as the amino acid sequence of Fig. 7A-C, Fig. 18A-H or Fig. 18A-H wherein amino acids 242-270 are deleted therefrom.

4. (Previously presented) A cell membrane preparation according to claim 3, wherein the vector comprises a DNA molecule that encodes the mammalian D2 dopamine receptor and is

- a) a DNA molecule having the sequence of Fig. 7A-C,
- b) a DNA molecule having the DNA sequence 1-1245 of Fig. 1A-E,
- c) a DNA molecule having the DNA sequence 1-1329 of the human DNA sequence of Fig. 18A-H,
- d) a DNA molecule having the DNA sequence 1-723 and 811-1329 of the human DNA sequence of Fig. 18A-H, corresponding to nucleotides 1-1323 of the human DNA sequence of Fig. 18A-H, wherein the nucleotide sequence 724-810 of the human is deleted therefrom, or
- e) a DNA molecule that hybridizes under conditions of 0.1X saline-sodium citrate (SSC) and 0.1% sodium dodecylsulfate (SDS) at a temperature of 65°C to a nucleic acid that is complementary to a), b), c) or d).

5-19. (cancelled)

20. (Previously presented) A cell membrane preparation comprising a mammalian D2 dopamine receptor having an amino acid sequence identified as the amino acid sequence of Fig. 7A-C, Fig. 18A-H or Fig. 18A-H wherein amino acids 242-270 are deleted therefrom, wherein the membrane preparation homogeneously comprises no other mammalian dopamine receptor type.

21. (Previously presented) A cell membrane preparation according to claim 20, wherein the mammalian D2 dopamine receptor is encoded by a DNA molecule comprising

- a) a DNA molecule having the sequence of Fig. 7A-C,
- b) a DNA molecule having the DNA sequence 1-1245 of Fig. 1A-E,
- c) a DNA molecule having the DNA sequence 1-1329 of the human DNA sequence of Fig. 18A-H,

- d) a DNA molecule having the DNA sequence 1-723 and 811-1329 of the human DNA sequence of Fig. 18A-H, corresponding to nucleotides 1-1329 of the human DNA sequence of Fig. 18A-H, wherein the nucleotide sequence 724-810 of the human is deleted therefrom, or
- e) a DNA molecule that hybridizes under conditions of 0.1X saline-sodium citrate (SSC) and 0.1% sodium dodecylsulfate (SDS) at a temperature of 65°C to a nucleic acid that is complementary to a), b), c) or d).

22. (Previously presented) A cell membrane preparation comprising a mammalian D2 dopamine receptor having an amino acid sequence identified as the amino acid sequence of Fig. 7A-C, Fig. 18A-H or Fig. 18A-H wherein amino acids 242-270 are deleted therefrom, wherein the membrane preparation homogeneously contains dopamine receptors that are none other than said mammalian D2 dopamine receptor.

23. (Previously presented) A cell membrane preparation according to claim 22, wherein the mammalian D2 dopamine receptor is encoded by a DNA molecule comprising

- a) a DNA molecule having the sequence of Fig. 7A-C,
- b) a DNA molecule having the DNA sequence 1-1245 of Fig. 1A-E,
- c) a DNA molecule having the DNA sequence 1-1329 of the human DNA sequence of Fig. 18A-H,
- d) a DNA molecule having the DNA sequence 1-723 and 811-1329 of the human DNA sequence of Fig. 18A-H, corresponding to nucleotides 1-1329 of the human DNA sequence of Fig. 18A-H, wherein the nucleotide sequence 724-810 of the human is deleted therefrom, or
- e) a DNA molecule that hybridizes under conditions of 0.1X saline-sodium citrate (SSC) and 0.1% sodium dodecylsulfate (SDS) at a temperature of 65°C to a nucleic acid that is complementary to a), b), c) or d).